

What is Claimed:

1. A method for configuring a controlled area with RFID tags for tracking the location of items within the controlled area, the method comprising:
 - determining a measurement accuracy for the location of the items;
 - determining locations for a plurality of RFID tags based on the determined measurement accuracy; and
 - placing the plurality of RFID tags in accordance with the determined locations.
2. The method of claim 1, wherein determining locations comprises determining a spacing for each of the plurality of RFID tags.
3. The method of claim 2, wherein the determined spacing is less than or equal to the determined measurement accuracy.
4. The method of claim 2, wherein determining the locations further comprises locating each of the plurality of RFID tags in a grid based on the determined spacing.
5. The method of claim 1, wherein placing the plurality of RFID tags comprises assembling the plurality of RFID tags into a plurality of strips and placing the plurality of strips based on the determined locations.
6. The method of claim 5, further comprising covering each of the plurality of strips with a protective material.

7. The method of claim 1, wherein placing the plurality of RFID tags comprises retrofitting a floor of the controlled area.

8. The method of claim 7, wherein retrofitting the floor comprises embedding each of the plurality of RFID tags in a low profile marker and installing the markers on the floor.

9. The method of claim 7, wherein retrofitting the floor comprises, for each of the plurality of RFID tags, making hole in the floor, inserting the RFID tag in the hole, and filling the hole.

10. The method of claim 9, where making a hole comprises boring a hole in the floor.

11. The method of claim 2, further comprising placing two RFID interrogators on a vehicle used to move items within the controlled area, the RFID interrogators separated by a distance that is based on the determined spacing of the plurality of RFID tags.

12. The method of claim 11, wherein the separation distance of the RFID interrogators is greater than the spacing determined for each of the plurality of RFID tags.

13. The method of claim 12, wherein the separation distance of the RFID interrogators is at least four times greater than the spacing determined for each of the plurality of RFID tags.

14. The method of claim 11, wherein the RFID interrogators are placed on the centerline of the vehicle.

15. A method for configuring a controlled area with RFID tags for tracking the location of items within the controlled area, the method comprising:

determining a measurement accuracy for the location of the items;

determining locations for a plurality of RFID tags based on the determined measurement accuracy; and

assembling the plurality of RFID tags into a plurality of strips and placing the plurality of strips based on the determined locations.

16. The method of claim 15, wherein determining locations comprises determining a spacing for each of the plurality of RFID tags.

17. The method of claim 16, wherein the determined spacing is less than or equal to the determined measurement accuracy.

18. The method of claim 16, wherein determining the locations further comprises locating each of the plurality of RFID tags in a grid based on the determined spacing.

19. The method of claim 15, further comprising covering each of the plurality of strips with a protective material.

20. A method for configuring a controlled area with RFID tags for tracking the location of items within the controlled area, the method comprising:

determining a measurement accuracy for the location of the items;

determining locations for a plurality of RFID tags based on the determined measurement accuracy; and

embedding each of the plurality of RFID tags in a low profile marker and installing the markers on the floor based on the determined locations.

21. The method of claim 20, wherein determining locations comprises determining a spacing for each of the plurality of RFID tags.

22. The method of claim 20, wherein the determined spacing is less than or equal to the determined measurement accuracy.

23. The method of claim 20, wherein determining the locations further comprises locating each of the plurality of RFID tags in a grid based on the determined spacing.

24. A method for configuring a controlled area with RFID tags for tracking the location of items within the controlled area, the method comprising:

determining a measurement accuracy for the location of the items;

determining locations for a plurality of RFID tags based on the determined measurement accuracy; and

for each of the plurality of RFID tags, making hole in the floor in accordance with the determined locations, inserting the RFID tag in the hold, and filling the hole.

25. The method of claim 24, where making a hole comprises boring a hole in the floor.

26. The method of claim 24, wherein determining locations comprises determining a spacing for each of the plurality of RFID tags.

27. The method of claim 26, wherein the determined spacing is less than or equal to the determined measurement accuracy.

28. The method of claim 26, wherein determining the locations further comprises locating each of the plurality of RFID tags in a grid based on the determined spacing.